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NOTICE OF ALLOWANCE AND FEE(S) DUE

33942 7590 10/08/2008

CHA & REITER, LLC 210 ROUTE 4 EAST STE 103 PARAMUS, NI 07652 EXAMINER FOUD, HICHAM B

PAPER NUMBER

ART UNIT

DATE MAILED: 10/08/2008

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNICY DOCKET NO.
 CONFRMATION NO.

 10650,580
 08/28/2003
 Se-Youn Lim
 5000-1-448
 8236

TITLE OF INVENTION: METHOD OF CONTROLLING LOOP-BACK PROCESS IN ETHERNET PASSIVE OPTICAL NETWORK

 APPLN. TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEE(S) DUE
 DATE DUE

 nonprovisional
 NO
 \$1510
 \$300
 \$0
 \$1810
 01/08/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GARAT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth tions.	or transmitting the light of the Patent, advanced in Block 1, b	te orders and notification (a) specifying a new	n of n	naintenance fees wi pondence address;	II be and/or	mailed to the current (b) indicating a sepa	corresp rate "F	ondence address as EE ADDRESS" for
CURRENT CORRESPOND	ress)	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.							
33942 CHA & REITE 210 ROUTE 4 E PARAMUS, NJ	EAST STE 103	/2008			Conti	Gente	of Mailing or Trans Transmittal is being ficient postage for first SUE FEE address 273-2885, on the d	mirrior	
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				ᆫ					(Date)
APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.		CONFIRMATION NO.		
10/650,580 TITLE OF INVENTION	08/28/2003 EMETHOD OF CONTR	OLLING LOOP-BA	Se-Youn Lim CK PROCESS IN ETHI		T PASSIVE OPTIC	AL N	5000-1-448 ETWORK		8236
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE	DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	E DATE DUE	
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EXAMINER		ART UNIT	CLASS-SUBCLAS	SS]				
FOUD, HICHAM B		2619	370-249000						
CFR 1.363). Change of corresp Address form PTO/S1 Fee Address" ind PTO/SB/47; Rev 03-C Number is required. ASSIGNEE NAME A	ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Comp	nge of Corresponden "Indication form ed. Use of a Custom A TO BE PRINTED O	(I) the names of or agents OR, alt (2) the name of a registered attorner 2 registered pater listed, no name w ON THE PATENT (print nee data will appear on NOT a substitute for fili	up to ernative single y or a nt attor vill be or typ the pa	e firm (having as a a agent) and the name: meys or agents. If n printed.	memb s of up o nam	er a 2		it has been filed for
Please check the appropr	riate assignee category or	categories (will not b	pe printed on the patent)		Individual 🖵 Cor	porati	on or other private gro	oup enti	ty 🗖 Government
4a. The following fee(s) Issue Fee Publication Fee (N Advance Order		osed. dit can	d. Form PTO-2038	is atta					
- 11	s SMALL ENTITY state	is. See 37 CFR 1.27.					TITY status. Sec 37 Ci		
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be acc tes Patent and Trader	epted from anyone other nark Office.	than t	he applicant; a regist	tered a	uttorney or agent; or th	e assig	ace or other party in
Authorized Signature			Date						
Typed or printed nam		Registration No.							
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33942	7590 10/08/2008		EXAMINER		
CHA & REITE	R, LLC	FOUD, HICHAM B			
210 ROUTE 4 E		ART UNIT	PAPER NUMBER		
PARAMUS, NJ)7652	2619			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 944 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 944 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/650,580 LIM ET AL. Notice of Allowability Examiner Art Unit HICHAM B FOUD 2619 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 07/30/2008. 2. The allowed claim(s) is/are 2, 4 and 5 renumbered as 1-3 respectively. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) \square All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

U.S. Patent and Trademark Office
PTOL-37 (Rev. 08-06)

/Hicham B Foud/ Examiner, Art Unit 2619

Attachment(s)

1. | Notice of References Cited (PTO-892)

Paper No./Mail Date

of Biological Material

2. Notice of Draftperson's Patent Drawing Review (PTO-948)

4. T Examiner's Comment Regarding Requirement for Deposit

Information Disclosure Statements (PTO/SB/08).

5. Notice of Informal Patent Application

7.

Examiner's Amendment/Comment

8. X Examiner's Statement of Reasons for Allowance

 Interview Summary (PTO-413), Paper No./Mail Date .

9. ☐ Other .

Application/Control Number: 10/650,580 Page 2

Art Unit: 2619

DETAILED ACTION

Allowable Subject Matter

Claims 2, 4 and 5 allowed.

2. The following is an examiner's statement of reasons for allowance:

For claims 2, 4 and 5, prior art fails to teach an OAM that has predetermined fields for transmitting messages of initiation, acknowledging and termination of the loop-back process between a remote device and a local device, in a combination with other recited claim limitations.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Note

4. In response to the applicant's concern about the correction of the citizenship of one of the inventors (KIM, JIN-HEE), it has been noted that the correction was made to the citizenship of KIM, JIN-HEE according to the Oath filed on 12/19/2003.

Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to HICHAM B. FOUD whose telephone number is (571)270-1463. The examiner can normally be reached on Monday - Friday 10-6 EST. Art Unit: 2619

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wing F. Chan can be reached on 571-272-7493. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Hicham B Foud/ Examiner, Art Unit 2619 09/20/2008

/Wing F. Chan/ Supervisory Patent Examiner, Art Unit 2619 9/26/08